

**IRRADIATION SYSTEM AND METHOD****ABSTRACT OF THE DISCLOSURE**

An irradiation system includes a radiation source for providing a radiation beam at a controlled power level. A product location system provides product so that the radiation beam impinges on the product. A sensor system measures an intensity of the radiation beam that passes through the product, and a control system adjusts the power level of the radiation beam based on the intensity of the radiation beam that passes through the product.

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